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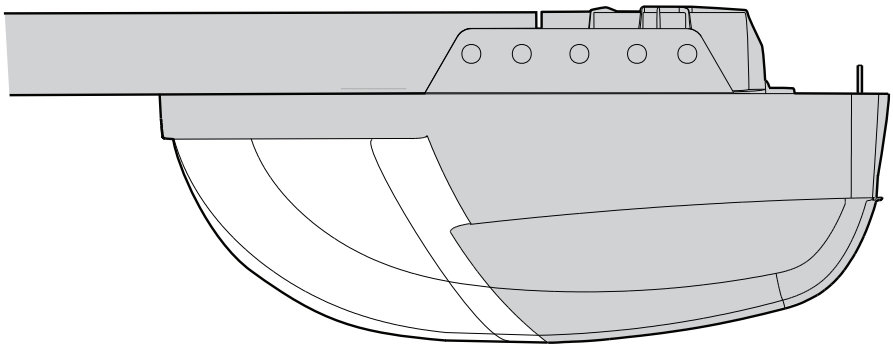

ML750

Sectional & Tilt Garage Door Opener

Installation and Operating Instructions

Owners Copy: Please keep these instructions for future reference

This manual contains IMPORTANT SAFETY information.
DO NOT PROCEED WITH THE INSTALLATION BEFORE READING THOROUGHLY.

N2966

START BY READING THESE IMPORTANT SAFETY INSTRUCTIONS

WARNING

- **Failure to comply with the following instructions may result in serious personal injury or property damage.**
- **Read and follow all instructions carefully.**
- **The garage door opener is designed and tested to offer safe service provided it is installed and operated in strict accordance with the instructions in this manual.**

These safety alert symbols mean *WARNING* : A possible risk to personal safety or property damage exists.

Keep garage door balanced. Do not let the garage door opener compensate for a binding or sticking garage door. Sticking, binding or unbalanced doors must be repaired before installing this opener.

Do not wear rings, watches or loose clothing while installing or servicing a garage door opener.

Frequently examine the door installation, in particular cable, springs and mountings for signs of wear, damage or imbalance. Do not use if repair or adjustment is needed since springs and hardware are under extreme tension and a fault can cause serious personal injury.

To avoid serious personal injury from entanglement, ***remove all ropes, chains and locks connected to the garage door*** before installing the door opener.

Installation and wiring must be in compliance with your local building and electrical codes.

The safety reverse system test is very important. Your garage door ***MUST*** reverse on contact with a 40mm obstacle placed on the floor. Failure to properly adjust the opener may result in serious personal injury from a closing garage door. ***Repeat the test once a month and make any necessary adjustments.***

This opener should not be installed in a damp or wet space exposed to weather.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

The Protector System™ must be used for all installations where the closing force as measured on the bottom of the door is over 400N (40kgf). Excessive force will interfere with the proper operation of the Safety Reverse System or damage the garage door.

After installation, ensure that the parts of the door do not extend over public footpaths or roads.

Install the wireless wall control (or any additional wall control) ***in a location where the garage door is visible, at a height of at least 1.5m and out of the reach of children. Do not allow children to operate push button(s) or transmitter(s).*** Serious personal injury from a closing garage door may result from misuse of the opener.

Permanently fasten the Warning Labels in Prominent Places, adjacent to Wall Controls and manual release mechanisms as a reminder of safe operating procedures.

Activate opener only when the door is in full view, free of obstructions and the opener is properly adjusted. No one should enter or leave the garage while the door is in motion.

Do not allow children to play near the door, or door controls.

Disconnect electric power to the garage door opener before making repairs or removing covers.

KEEP THESE INSTRUCTIONS

NOTE: If your garage has no service entrance door, a 1702AML outside quick release must be installed. This accessory allows manual operation of the garage door from outside in case of power failure.

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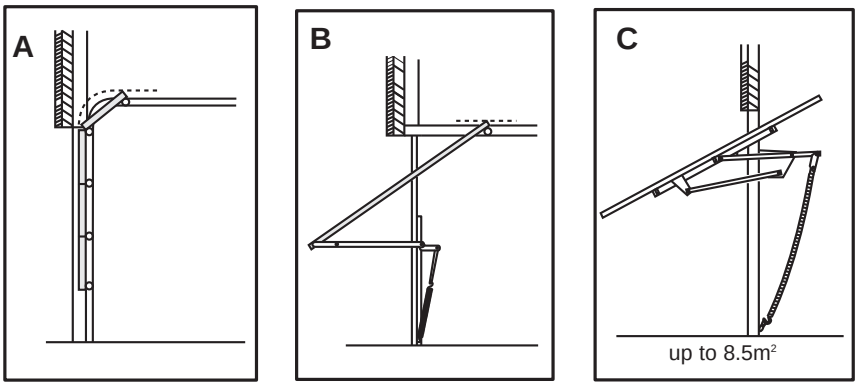
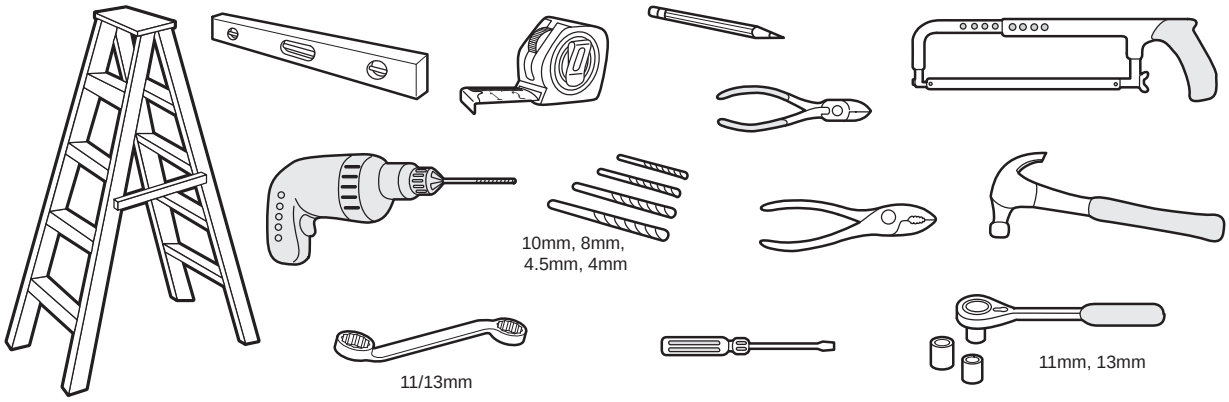
1 *DOOR TYPES*

A. Sectional door with curved track
B. One-piece door with horizontal track
C. One-piece door without track

To suit spring balanced sectional doors and spring balanced tracked tilt doors up to 15m², or spring balanced tilt doors without track up to 8.5m².
Door mass up to: 70kg

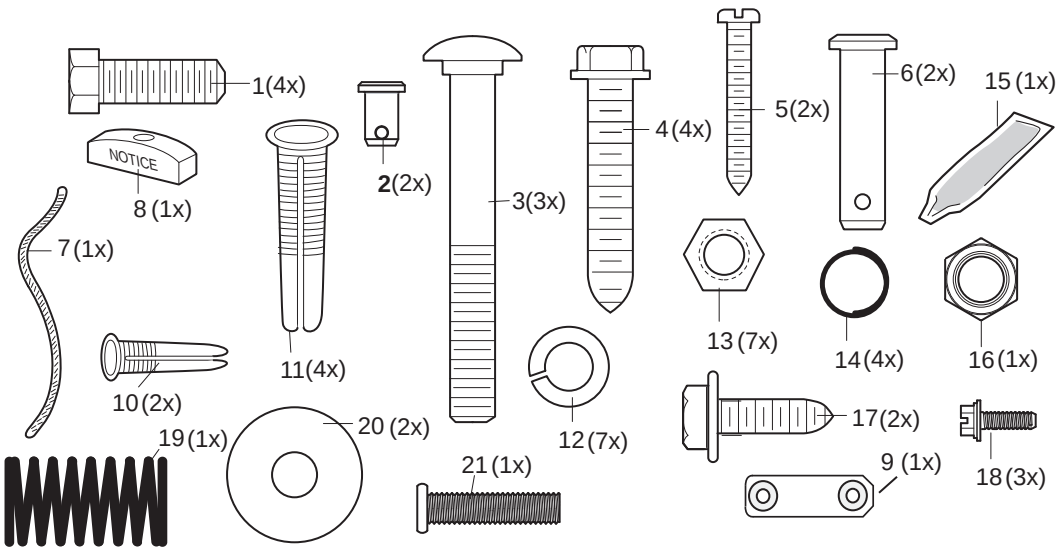


2 *TOOLS REQUIRED*



3 *HARDWARE PROVIDED*

(1) Hex bolt
(2) Clevis pin
(3) 8mm carriage bolt
(4) Wood screws
(5) Sheet metal screws
(6) Clevis pin
(7) Rope
(8) Handle
(9) Wall mount for 84330AML
(10) Anchor
(11) Concrete anchor
(12) Lock washer
(13) Hex nut
(14) Ring fastener
(15) Rail grease
(16) Lock nut
(17) Metric tapping screw
(18) Hex screw
(19) Spring
(20) Flat washer
(21) Stop bolt

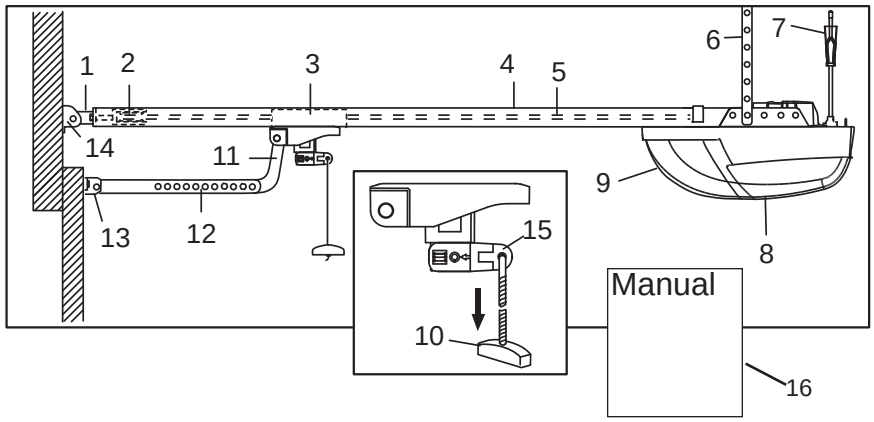


BEFORE YOU BEGIN:

1. Look at the wall or ceiling above the garage door. The header bracket ***must*** be securely fastened to structural supports.
2. Do you have a finished ceiling in your garage? If so, a support bracket and additional fastening hardware (not supplied) may be required.
3. Do you have an access door in addition to the garage door? If not, Model 1702AML outside quick release accessory is required. This accessory allows manual operation of the garage door from outside in case of power failure.
4. Complete the following test to make sure your garage door is balanced and is not sticking or binding:
   - Lift the door about halfway. Release the door. If balanced, it should stay in place, supported entirely by its springs.
   - Raise and lower the door to see if there is any binding or sticking (20 kgf is the absolute maximum allowable to raise or lower the door in any position). If your door binds, sticks, or is out of balance, call a trained door systems technician before proceeding with installation.

4 *COMPLETED INSTALLATION - ALL PARTS LISTED ARE SUPPLIED IN THE CARTON*

As you proceed with the assembly, installation and adjustment procedures in this manual, you may find it helpful to refer back to this illustration of a completed installation for tilt doors (for sectional doors refer section 20).

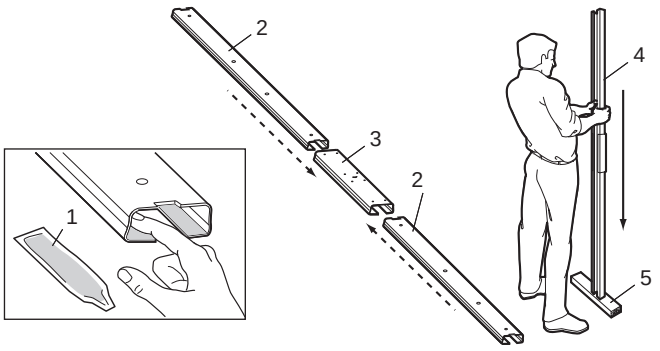


(1) Header sleeve
(2) Idler pulley bracket
(3) Trolley
(4) Rail
(5) Belt
(6) Hanging bracket
(7) Power cord
(8) Opener
(9) Light lens
(10) Manual release rope & handle
(11) Curved door arm
(12) Straight door arm
(13) Door bracket and plate
(14) Header bracket
(15) Trolley release arm
(16) Manual (this document)

ASSEMBLY SECTION

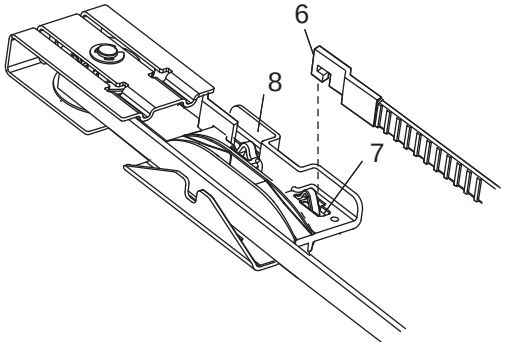
5 *ASSEMBLE THE RAIL (SECTIONAL RAIL)*

Grease inside edges of rail sections using grease (1). Place rail pieces (2) on flat surface for assembly. All four rail sections are interchangeable. Slide rail brace (3) onto rail section. Connect rail by sliding rail brace onto next rail section. Tap rail assembly (4) on piece of wood (5) until rail sections are flush. Repeat with remaining rail sections.



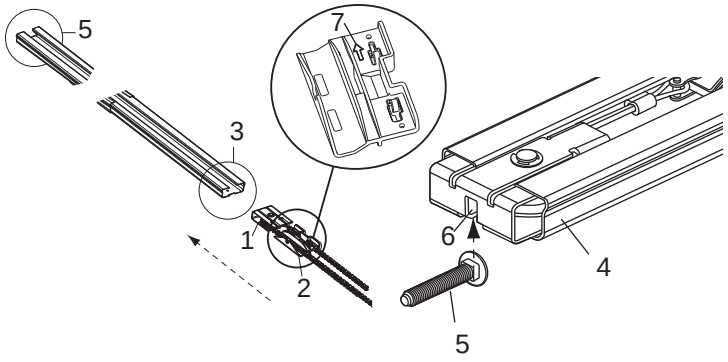
6 *INSTALL THE BELT*

Remove belt from carton and lay out on floor (do not allow belt to twist). Hook the trolley connector (6) into the slot (7) on the trolley (8).



7 INSERT TROLLEY & IDLER PULLEY BRACKET INTO RAIL

Slide idler pulley bracket (1) and inner trolley (2) into back (opener end) of rail assembly (3), be sure to insert idler pulley bracket as shown. Arrow on trolley (7) must face toward front (door end) of rail (4). Push idler pulley bracket toward front (door end) of rail (4). Insert carriage bolt (5) into bolt cut out in the idler pulley bracket (6).

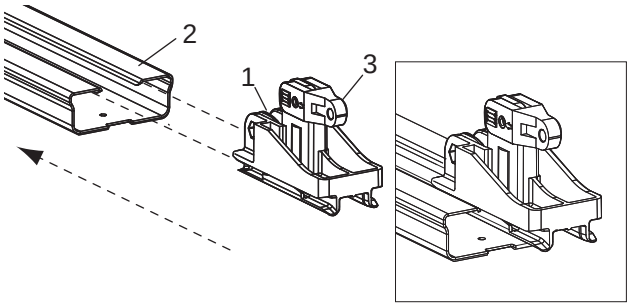


8 ATTACH TROLLEY TO RAIL

To prevent the belt from fouling, pull the excess to the opener end before inserting the trolley.

Slide outer trolley (1) into back (opener end) of the rail assembly (2), be sure end with trolley release arm (3) is heading in direction of opener. Slide outer trolley down rail until it engages with inner trolley.

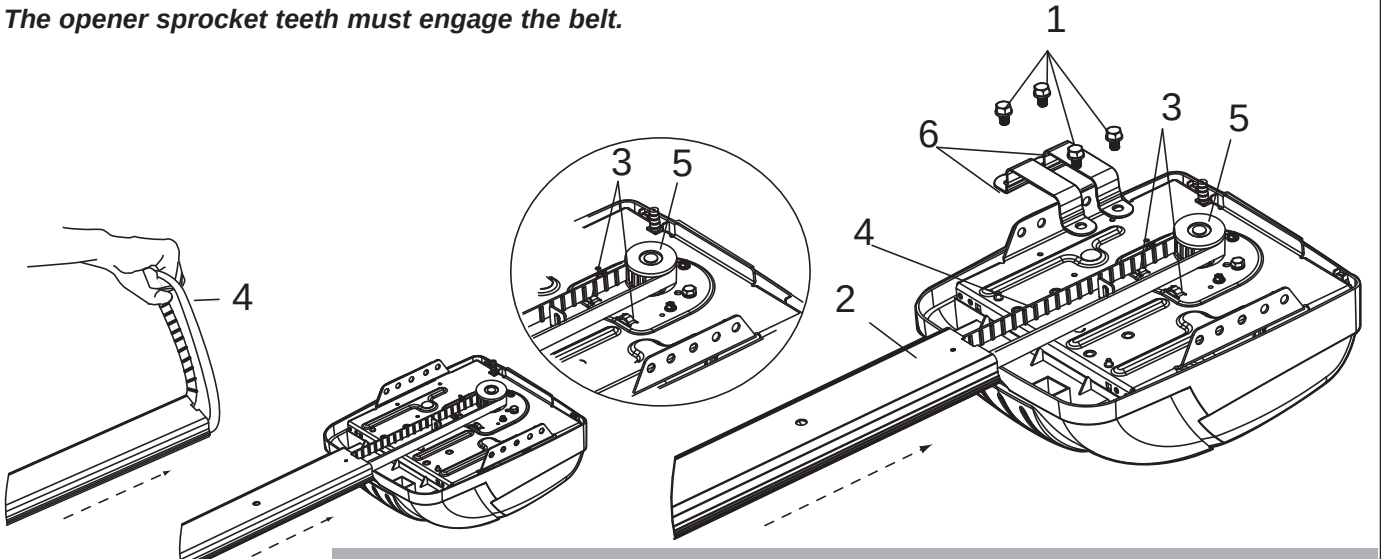
Move the engaged trolley assembly to the midpoint of the rail, then turn the rail assembly over ready to fasten to the opener.



9 FASTEN RAIL TO OPENER & INSTALL BELT

Remove four washered bolts (1) from top of opener. Place rail (2) on opener, flush with stop (3) on top of opener. Wrap belt (4) over sprocket (5). Push idler pulley bracket assembly toward front of the rail to eliminate excess slack in belt. Align bolt holes on brackets (6) with bolt holes on opener. Secure brackets to opener with the bolt previously removed. Tighten bolts securely.

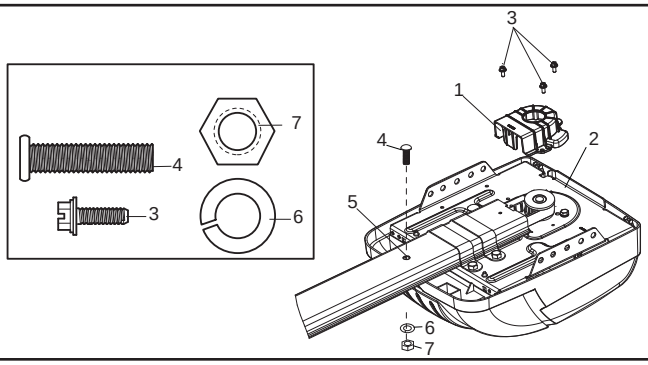
The opener sprocket teeth must engage the belt.



CAUTION: Use only those bolts mounted in the top of opener. Use of any other bolts will cause serious damage to opener.

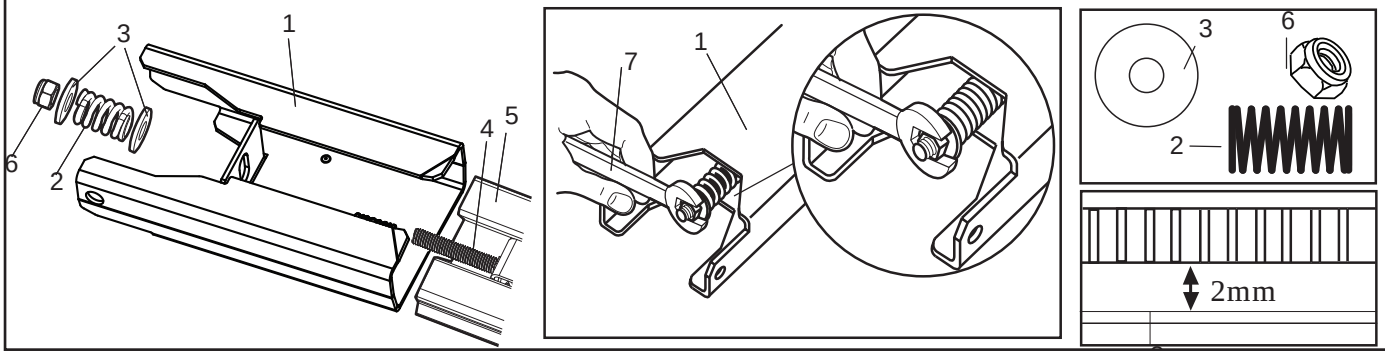
10 ATTACH SPROCKET COVER

Place sprocket cover (1) on top of the opener (2), secure with screws (3). Insert bolt (4) into trolley stop hole (5), secure with washer (6) and nut (7).



11 INSTALL HEADER SLEEVE AND TIGHTEN BELT

Slide header sleeve (1) onto rail (5). Slide flat washer (3), spring (2) and washer (3) onto carriage bolt (4). Thread nut (6) onto carriage bolt until finger tight. Use an open end wrench (7) to tighten nut until the belt is approximately 2mm above the base of the rail at its midpoint. **DO NOT OVER TIGHTEN THE BELT**. See image below.



INSTALLATION SECTION

Wear protective goggles when working overhead to protect your eyes from injury.
Disengage all existing garage door locks to avoid damage to the garage door.
To avoid serious personal injury from entanglement, remove all ropes connected to the garage door before installing the opener.

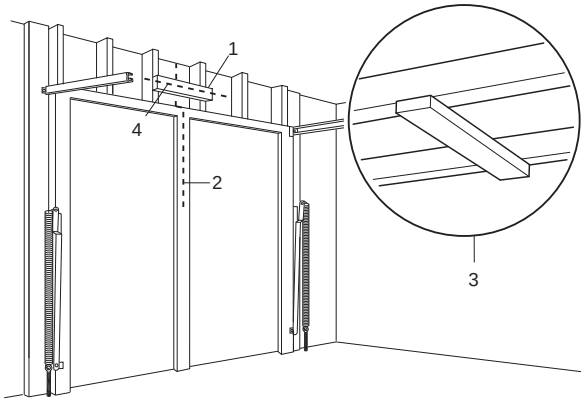
NOTE: Where possible it is recommended that the opener be installed 2.1m (7 feet) or more above the floor.

12 POSITION THE HEADER BRACKET

The header bracket must be securely fastened to a structural support of the garage. Reinforce the wall or ceiling with a 40mm (1-1/2") board if necessary. Failure to comply may result in improper operation of safety reverse system.

You can attach the header bracket either to the header wall (1) or to the ceiling (3). Follow the instructions that best suit your particular requirements. With the door closed, mark the vertical centreline (2) of the garage door. Extend line onto header wall above the door.

Open door to highest point of travel. Draw an intersecting horizontal line (4) on header wall 50mm or 200mm above high point to provide travel clearance for top edge of the door. Height depends on door type (refer section 15).

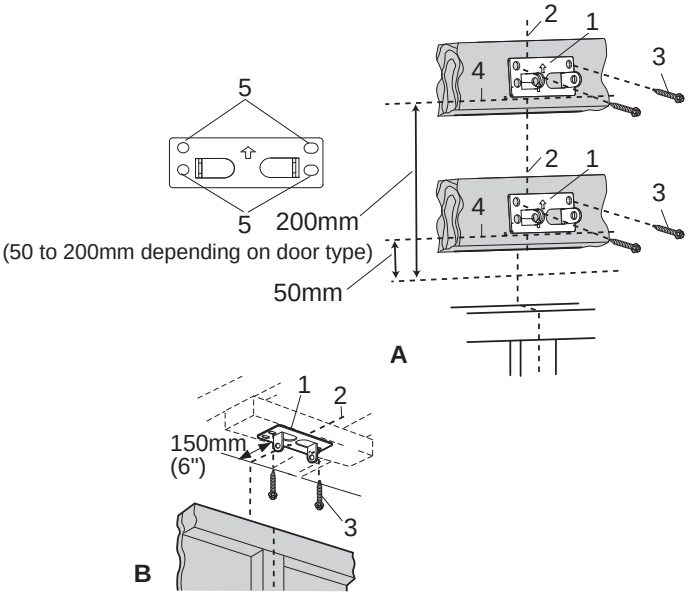


13 INSTALL THE HEADER BRACKET

NOTE: Refer to vertical centre and horizontal lines created in section 12 for proper placement of header bracket.

A. **Wall mount:** Centre the header bracket (1) on the vertical centre line (2) with the bottom edge of the header bracket on the horizontal line (4) (with the arrow pointing toward the ceiling). Mark all of the header bracket holes (5). Then drill 4.5mm (3/16") pilot holes and fasten the header bracket with wood screws (3).

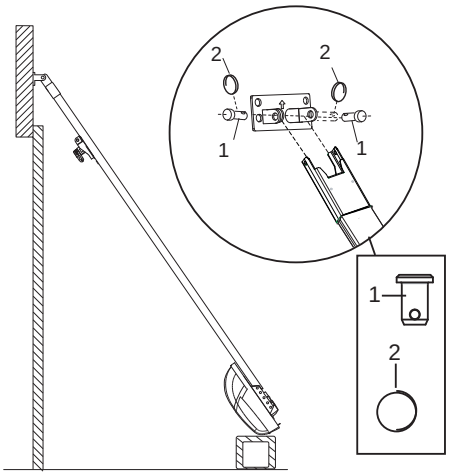
B. **Ceiling mount:** Extend vertical centre line (2) onto the ceiling. Centre the header bracket (1) on the vertical mark no more than 150mm (6") from the wall. Make sure the arrow is pointing towards the opener. Mark all of the header bracket holes (5). Then drill 4.5mm (3/16") pilot holes and fasten the header bracket with wood screws (3). For concrete ceiling mount, use concrete anchors provided.



14 *ATTACH RAIL TO HEADER BRACKET*

Position the opener on the garage floor below the header bracket. Place packing material under the opener to protect the cover. Raise rail until holes in the header sleeve and holes in the header bracket align. Join with clevis pin (1). Insert ring fasteners (2) to secure.

NOTE: To enable the rail to clear the sectional door springs, it may be necessary to lift opener onto a temporary support. The opener must either be secured to a support or held firmly in place by another person.



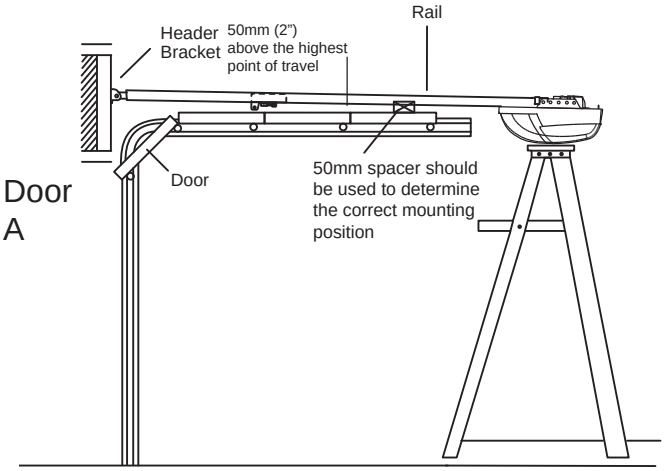
15 *POSITION THE OPENER*

SECTIONAL DOOR OR TRACKED TILT DOOR

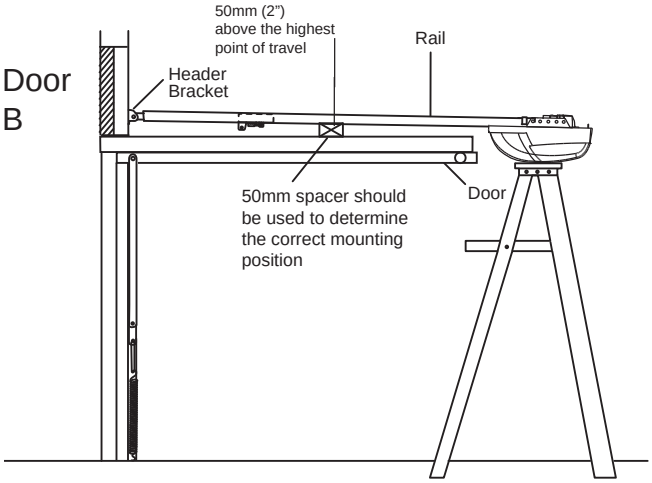
You will need a 50mm piece of timber or similar spacer to gauge the distance between door and rail.

1. Raise the opener up onto support.
2. Open the door completely, place a 50mm spacer between the door and the rail (as shown).
3. If the top section or panel hits the trolley when you raise the door, pull down on the trolley arm to disengage the motor. Leave the trolley in this position until motor is fastened in place.

Door A


Header Bracket
50mm (2") above the highest point of travel
Rail
Door
50mm spacer should be used to determine the correct mounting position

Door B

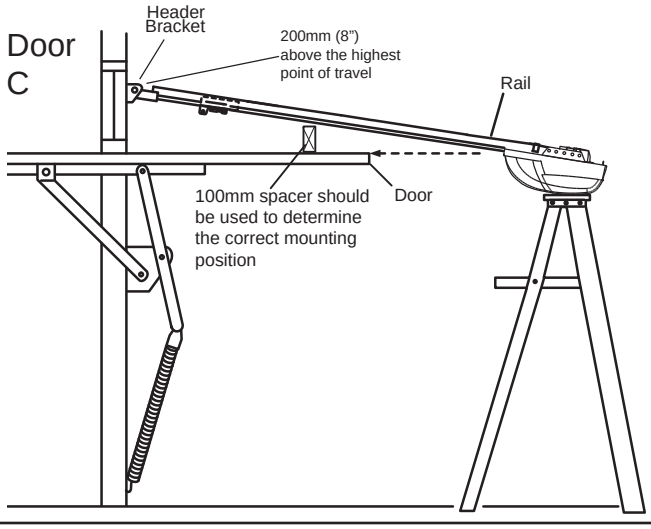

50mm (2") above the highest point of travel
Rail
Header Bracket
50mm spacer should be used to determine the correct mounting position
Door

ONE PIECE TILT DOOR (NON TRACKED)

You will need a 100mm (4") piece of timber or similar spacer to gauge the distance between door and rail.

1. Raise the opener onto support.
2. Open the door completely, place a 100mm spacer between the door and the rail (as shown).
3. The top of the door should be level with the top of the motor. Do not position the opener more than 50mm (2") above this point.

Door C


Header Bracket
200mm (8") above the highest point of travel
Rail
100mm spacer should be used to determine the correct mounting position
Door

16 *HANG THE OPENER*

The opener must be securely fastened to a structural support of the garage.

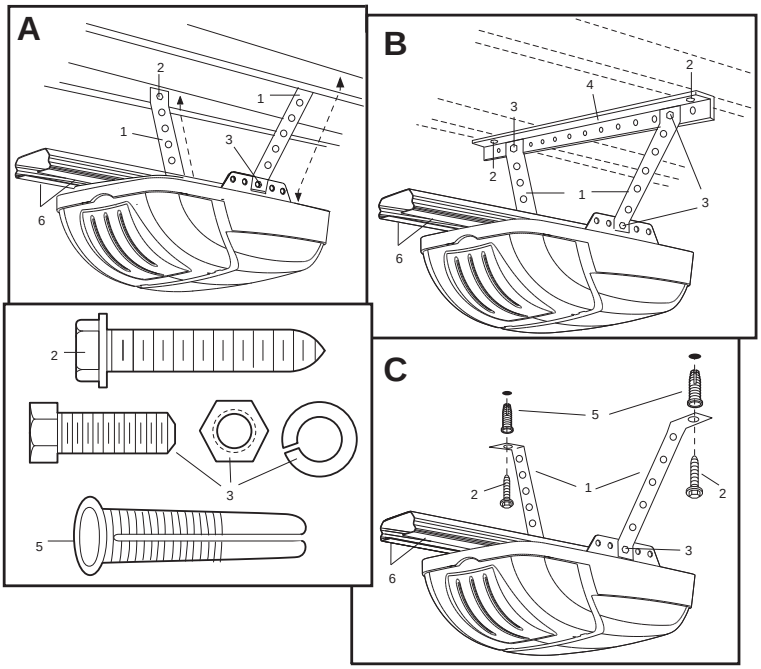
Three representative installations are shown. Yours may be different. Hanging brackets (1) should be angled (Figure A) to provide rigid support. On finished ceilings, (Figure B) attach a sturdy metal bracket (not supplied) (4) to a structural support before installing the opener. For concrete ceiling mount, (Figure C), use concrete anchors (5) provided.

On **each** side of opener measure the distance from the opener to the structural support (or ceiling).

Cut both pieces of the hanging bracket to required lengths. Flatten one end of each bracket and bend or twist to fit the fastening angles. **Do not bend at the bracket holes.** Drill 4.5mm (3/16") pilot holes in the structural supports (or ceiling).

Attach brackets to supports with wood screws (2).

Lift opener and fasten to hanging brackets with screw, lock washer and nut (3). Check to make sure rail is centred over the door. REMOVE 50mm or 100mm board. Operate door manually. If door hits the rail, raise header bracket. Use rail grease and lubricate bottom inside surface of rail (6).

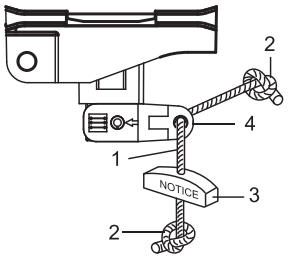


17 *ATTACH EMERGENCY RELEASE ROPE & HANDLE*

Thread one end of rope (1) through hole in top of red handle so "NOTICE" reads right side up as shown (3). Secure with an overhand knot (2). Knot should be at least 25mm (1") from end of the rope to prevent slipping.

Thread other end of rope through hole in release arm of the outer trolley (4). Adjust rope length so that handle is less than 1.8m (6 feet) above the floor. Secure with an overhand knot.

NOTE: If it is necessary to cut rope, heat seal cut end to prevent fraying.

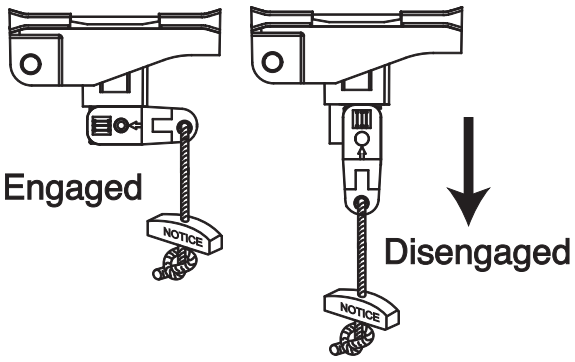


Door should be released in the closed position if possible.

To release the trolley PULL down on the red handle.

To re-engage PULL the red handle back towards the opener (trolley will re-engage automatically when operated).

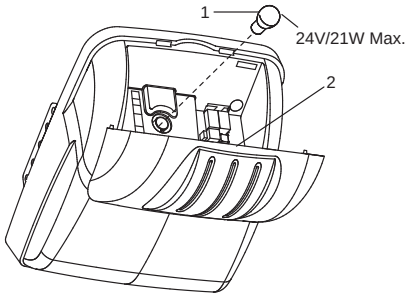
DO NOT USE THE HANDLE TO OPEN OR CLOSE THE DOOR.



DO NOT DISENGAGE THE OPENER IF ANY PERSONS OR OTHER OBJECTS INCLUDING MOTOR VEHICLES ARE WITHIN THE DOORWAY: (The door is under significant tension and if the door has developed a fault or incorrect tension, it may be unsafe and may fall rapidly).

18 *INSTALL LIGHT*

Turn power off, then gently pull lens (2) downward until the lens hinge is in the fully open position. Do not remove the lens. Install a 24V/21W maximum light bulb (1) in the socket as shown. Turn power on, the light will turn on and remain lit for 2-1/2 minutes. After 2-1/2 minutes it will turn off. To close, gently push diffuser up until engaged.

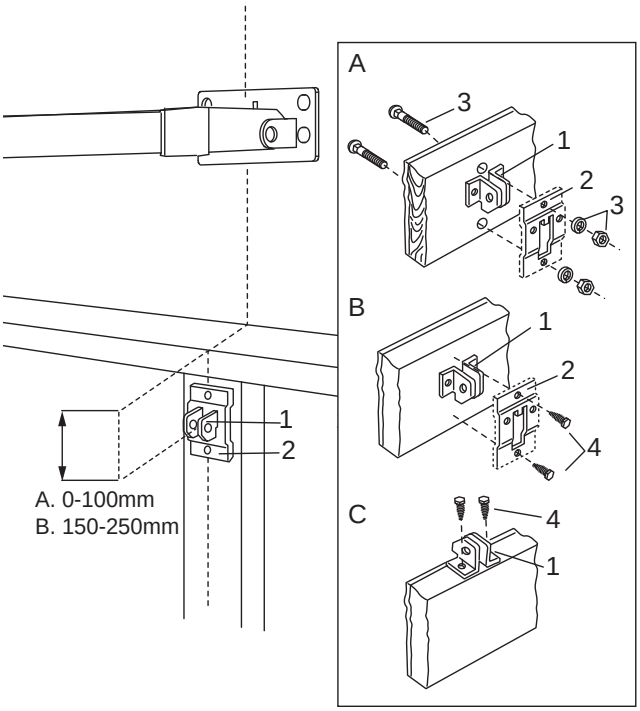


19 *FASTEN DOOR BRACKET*

Sectional and one-piece door installation procedure:

Door bracket (1) has left and right side fastening holes. If your installation requires top and bottom fastening holes use both the door bracket and door bracket plate (2) as shown.

1. Centre door bracket (with or without door bracket plate, as required) at the top inside face of door as shown. Mark holes.
   A. One-piece doors
   Locate bracket at inside face of the door 0-100mm down.
   B. Sectional doors
   150 - 250mm below the top of the door.
2. Fasten bracket to the door using the appropriate screws.
   A. Wooden doors
   Drill 8mm holes (5/16") and fasten the door bracket with nut, lock washer, and carriage bolt (3)**.**
   B. Sheet metal doors
   Fasten with metal screws (4).
   C. One-piece door optional
   Fasten with wood or metal screws (4).



20 *ASSEMBLE DOOR ARM*

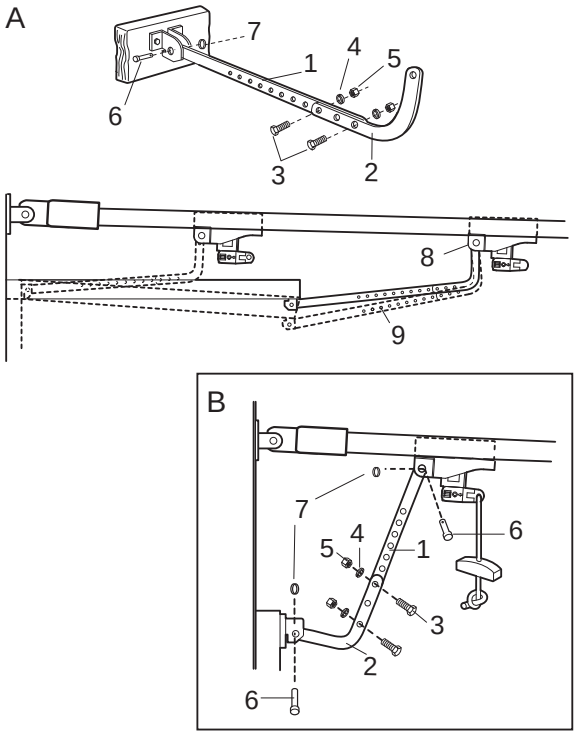
A. ONE-PIECE DOOR INSTALLATION:

Fasten the straight (1) and curved (2) door arm sections together to the longest possible length (with a 2 or 3 hole overlap) using carriage bolts (3), lock washers (4) and hex nuts (5). With the door closed connect the straight door arm section (1) to the door bracket with clevis pin (6). Secure with ring fastener (7). Disconnect the inner and outer trolley. Slide the outer trolley back toward the opener and join the curved arm (2) to the connector hole in the trolley (8) with clevis pin (6). It may be necessary to lift the door slightly to make the connection. Secure with ring fastener (7).

NOTE: When setting the up limit, the door should not have a "backward" slant in fully open position. A slight backward slant (9) will cause unnecessary bucking and/or jerking whilst operating the door.

B. SECTIONAL DOOR INSTALLATION:

Connect according to Figure B, then proceed to Section 21.



Connect Electric Power

TO AVOID INSTALLATION DIFFICULTIES, DO NOT RUN THE GARAGE DOOR OPENER UNTIL INSTRUCTED TO DO SO. Connect to properly fused and earthed power outlet.

21 SETTING THE LIMITS

Travel limits regulate the points at which the door will stop when moving up or down. Follow the steps below to set the limits.

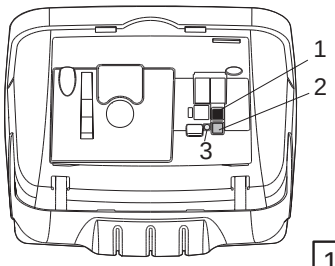
NOTE: The door must be in the mid or closed position to begin setting the limits.

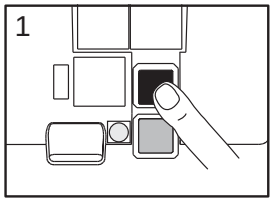
Setting the limits:

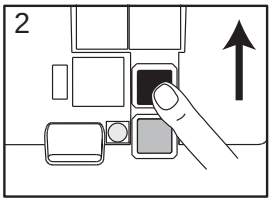
1. Press and hold the black button (1) until the yellow indicator (3) light starts flashing slowly then release.
2. Adjust the position of the door to the desired UP position by using the black button. Black (1) moves the door UP (open) and orange (2) moves the door DOWN (close). Check to be sure the door opens high enough for your vehicle to pass under.
3. Push the remote control or door control. This sets the UP (open) limit and begins closing the door.

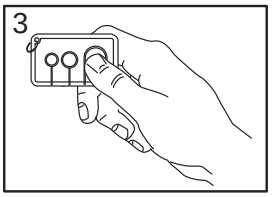
   Immediately press either the orange or the black button. The door will stop.
4. Adjust the desired DOWN (close) limit position using the black and orange buttons. Check to be sure the door is fully closed without applying excessive pressure on the rail (rail should not bow upwards and the belt should not sag or droop below the rail). Push the remote control or door control. This sets the DOWN (close) limit and begins opening the door.
5. Open and close the door with the remote control or door control 2 or 3 times (leave door in open position ready for force setting).

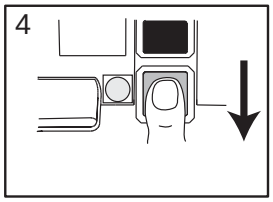
NOTE: The force must now be set in order to complete your installation (refer section 22).

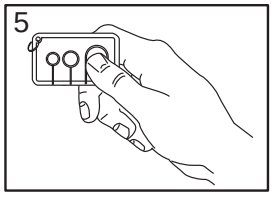












22 SETTING THE FORCE

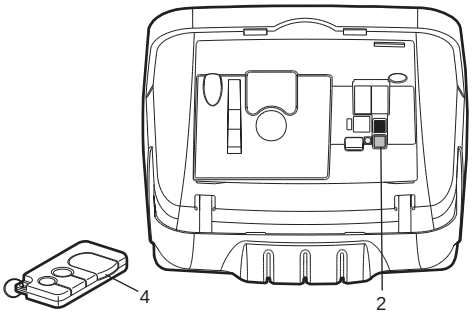
The force setting button is located behind the light lens of the opener. The force setting regulates the amount of power required to open and close the door.

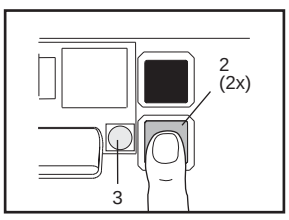
1. Open the light lens. Locate the orange button (2).
2. Push the orange button (2) twice to enter unit into force adjustment mode. The LED (3) (indicator light) will flash quickly.
3. Push the programmed remote control (4) or push bar on the door control (if installed). The door will travel to the DOWN (close) position. Push the remote control (4) again, the door will travel to the UP (open) position.

The LED (3) (indicator light) will stop flashing when the force has been learned.

The door must travel through a complete cycle, UP and DOWN, in order for the force to be set properly. If the unit cannot open and close your door fully, inspect your door to ensure that it is balanced properly and is not sticking or binding.

The force MUST be learned in order to properly complete the setting of the limits.



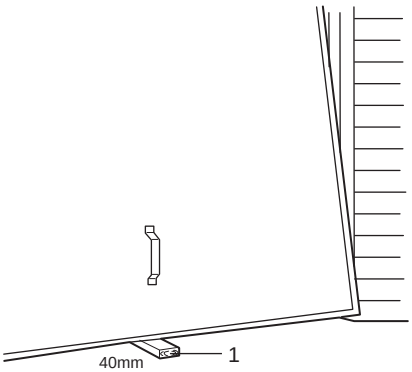


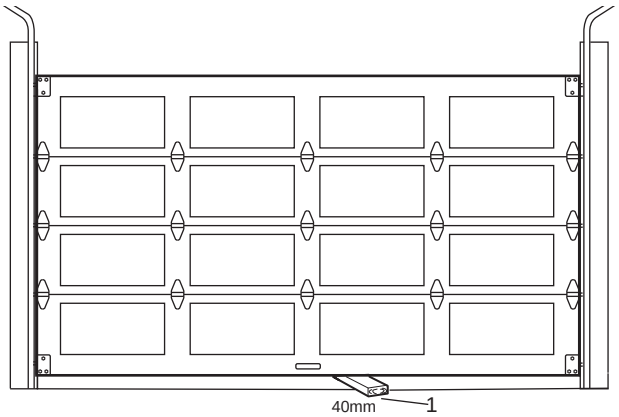
23 *TEST THE SAFETY REVERSE SYSTEM*

The safety reverse system test is important. The garage door must reverse on contact with a 40mm obstacle laid flat on the floor. Failure to properly adjust opener may result in serious personal injury from a closing garage door.

Procedure: Place a 40mm obstacle (1) laid flat on the floor under the garage door. Operate the door in the down direction. The door must reverse upon contact with the obstacle. If the door stops on the obstacle, remove obstacle and repeat setting the limits and force sections 21 & 22 and repeat safety reverse test.
When the door reverses on the 40mm obstacle, remove the obstacle and run the opener through a complete travel cycle. Door must not reverse in closed position. If it does, repeat setting the limits and force sections 21 & 22 and repeat safety reverse test.

Repeat test once a month and adjust as needed.





STANDARD INSTALLATION COMPLETE

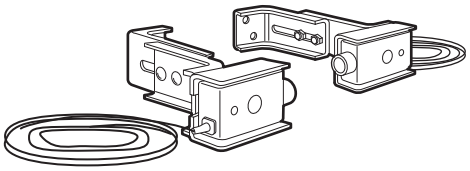
24 *INSTALL THE PROTECTOR SYSTEM™*

(See accessories)

Install this accessory for all installations on tilt doors, doors over 2.5m and when the closing force as measured on the bottom of the door is over 400N (40kg).

After opener has been installed and adjusted, the **Protector System™** accessory can be installed. Instructions are included with this accessory.

The Protector System™ provides an additional measure of safety against a small child or obstacle being caught under a garage door. It uses an invisible beam which, when broken by an obstruction, causes a closing door to open and prevents an open door from closing and is *strongly recommended for homeowners with young children.*



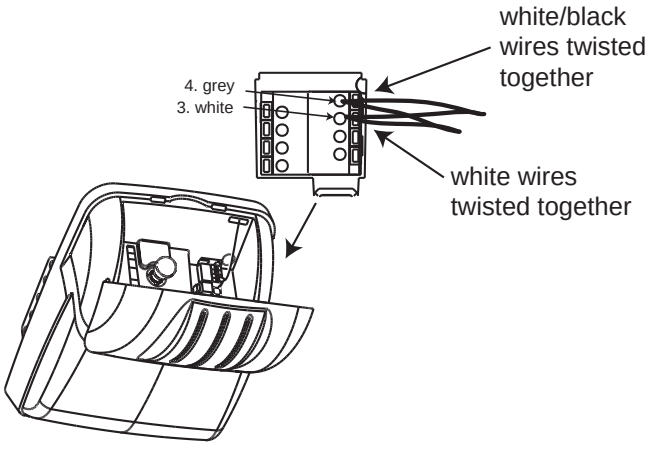
SAFETY FIRST!

Whilst Chamberlain have engineered safety features into your garage door opener, we urge you to consider fitting IR Beams to your new garage door opener. In many countries these devices are compulsory to prevent serious injury or property damage. For your own peace of mind and the safety of others please install this inexpensive safety device.

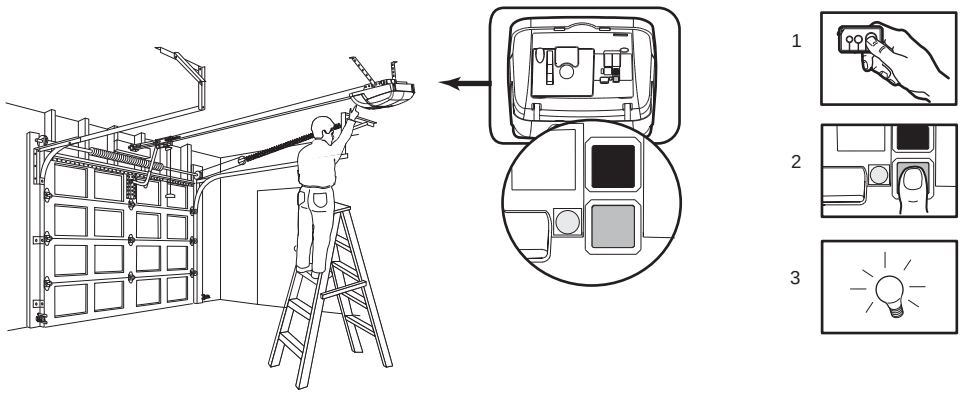
Note: The opener will automatically detect the Protector System™ when it is installed and operating for 5 minutes (during this time the beams must remain unobstructed). The opener will not close unless the beams are aligned.

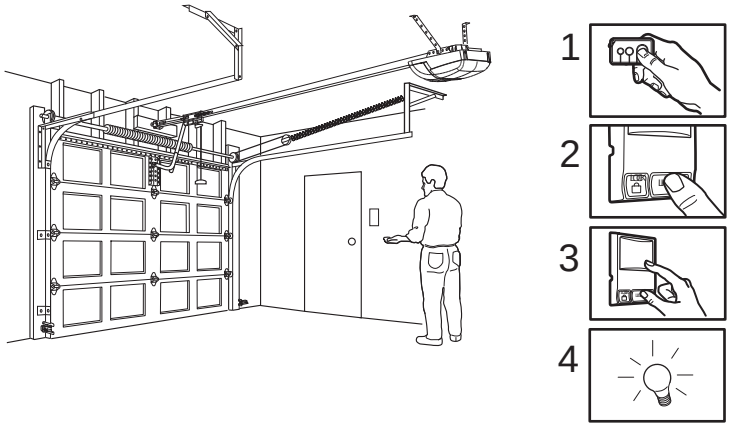
Connecting the Protector System™

Locate the terminals on the front of the opener. Strip all wires back about 10mm then twist the two white wires and the two white/black wires together. Trim the twisted wires to approximately 6mm. Use a small screwdriver or pen to hold down the spring terminals, insert the white/black wires into the grey terminal (4), then terminate the white (only) wires into the white terminal (3).



25 *WIRELESS PROGRAMMING*





Activate the opener only when door is in full view, free of obstruction and properly adjusted. No one should enter or leave garage while door is in motion. Do not allow children to operate push button(s) or remote(s). Do not allow children to play near the door.

The remote controls supplied with your opener are pre-programmed to your receiver in the factory.
If you purchase additional remote controls, you will need to program them into your opener using the steps below.

Adding remotes:

Using the orange "LEARN" button:

1. Press and hold the button on the hand held remote you wish to program to the opener. The learn LED will flash continuously.
2. Press and release the orange "learn" button.
3. Release the button on the hand held remote when the opener light flashes. It has learned the code. If the light bulb is not installed, one click will be heard.

Using the multi-function door control:

1. Press and hold the button on the hand-held remote that you wish to operate your garage door.
2. While holding the remote button, press and hold the LIGHT button on the multi-function door control.
3. Continue holding both buttons while you press the push bar on the multi-function door control (all three buttons are held).
4. Release buttons when the opener light flashes. It has learned the code. If the light bulb is not installed, one click will be heard.

Deleting ALL remote control codes

NOTE: This deletes all remotes and codes

Press and hold the orange "learn" button on opener until the learn indicator light goes out (approximately 6 seconds). All previous codes are now erased. Reprogram each remote or keyless entry you wish to use.

26 *KEYLESS DEVICE PROGRAMMING (OPTIONAL ACCESSORIES)*

Activate the opener only when door is in full view, free of obstruction and properly adjusted. No one should enter or leave garage while door is in motion. Do not allow children to operate push button(s) or remote(s). Do not allow children to play near the door.

NOTE: Your new keyless entry must be programmed before it will operate your garage door opener.

Program the keyless entry system

Using the orange "LEARN" button:

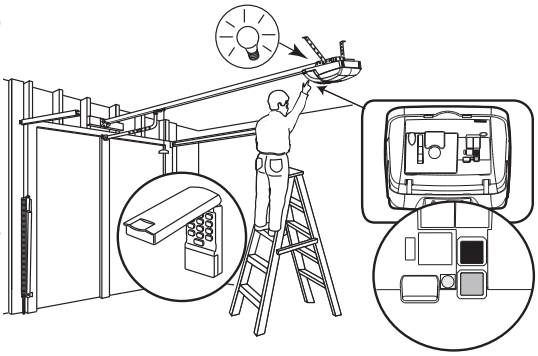
1. Press and release the orange "learn" button (1) on opener. The learn indicator light will glow steadily for 30 seconds.
2. Within 30 seconds, enter a four digit personal identification number (PIN) of your choice on the keypad (2), then press and hold the ENTER button.
3. Release the button when the opener light flashes (3). It has learned the code. If the light bulb is not installed, one click will be heard.

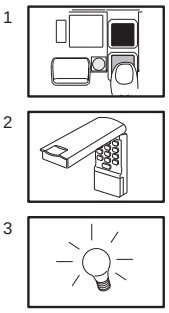
.

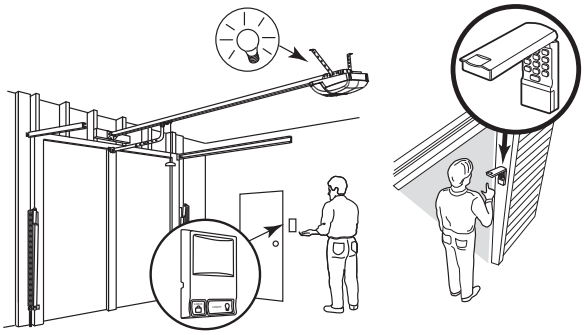
NOTE: This method requires two people if the keyless entry is already mounted outside the garage.

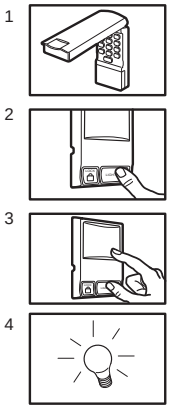
Using the multi-function door control to program:

1. Enter a four digit personal identification number (PIN) of your choice on the keypad, then press and hold ENTER.
2. While holding the ENTER button, press and hold the LIGHT button on the multi-function door control.
3. Continue holding the ENTER and LIGHT buttons while you press the push bar on the multi-function door control (all three buttons are held).
4. Release buttons when the opener light flashes. It has learned the code. If the light bulb is not installed, one click will be heard.









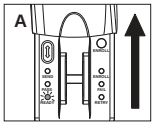
Wireless fingerprint access system C379 (optional accessory)

Full instructions are available with this accessory. Once you have enrolled your user(s) into the C379 you can program the unit into your opener.

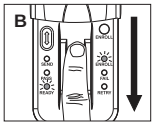
Using the orange "LEARN" button:

1. Press and release the orange "learn" button on opener. The learn indicator light will glow steadily for 30 seconds.
2. Within 30 seconds slide the cover of the C379 up as illustrated (A). Swipe your finger on the reader head at a steady speed (B) until the yellow LED turns on (C).
3. When the opener light flashes it has learned the code. If the light bulb is not installed, one click will be heard, ensure there are no obstructions in the path of the door, then press the send button (D) to test the door.

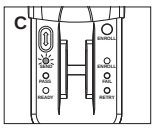
Programming C379 wireless fingerprint



Slide the cover plate up (A)

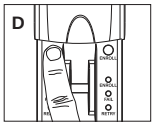


Swipe finger at a steady speed (B)



Yellow LED will indicate successful swipe (C)

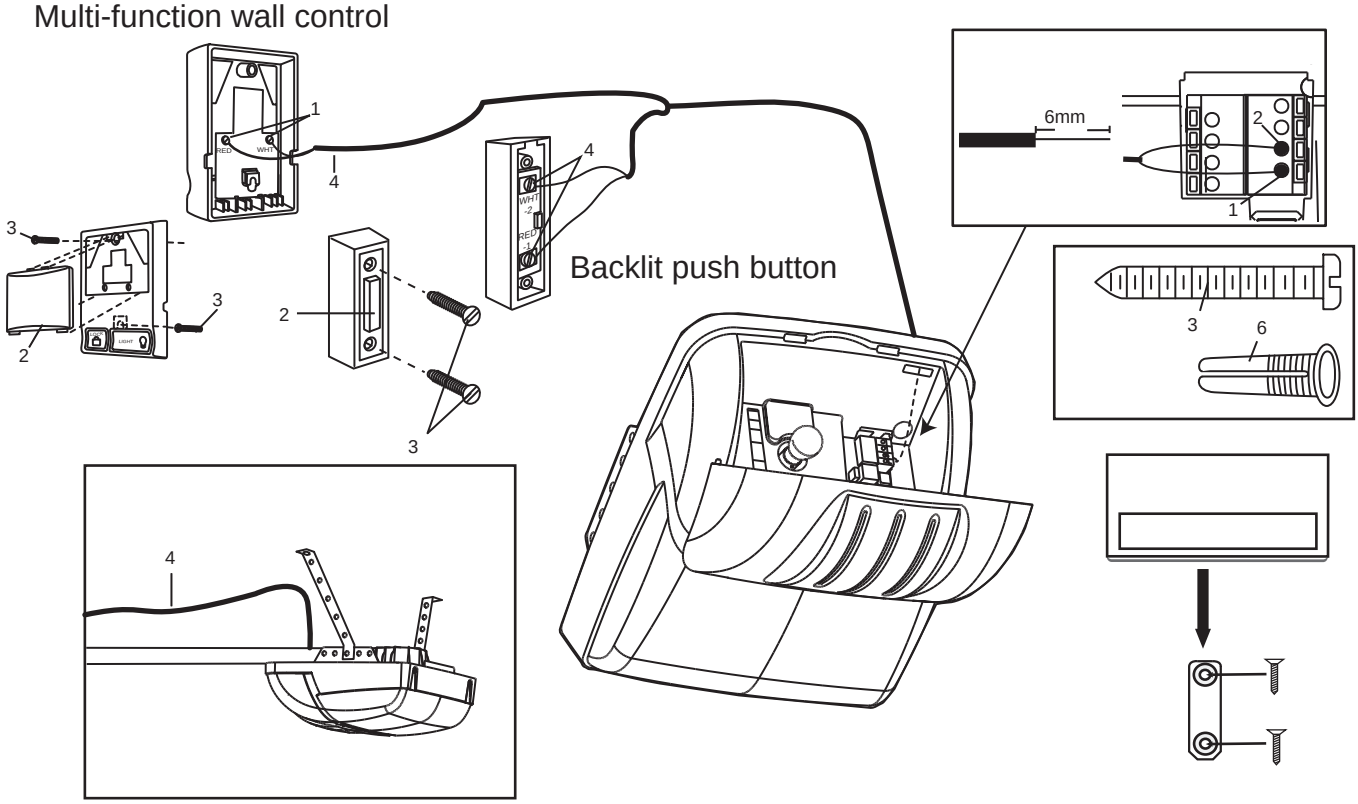
Courtesy light will flash once.



Test reader by pressing the send button (D)

27 *INSTALL DOOR CONTROL (OPTIONAL)*

Multi-function wall control



Installation

There are 2 terminals (1) on the back of the door control. Strip about 6mm (1/4") of insulation from bell wire (4). Separate wires enough to connect the white/red wire to RED terminal screw (1) and the white wire to WHT terminal screw (2).

Fasten the door control to an inside garage wall with sheet metal screws (3) provided. Drill 4mm (5/32") holes and use anchors (6) if installing onto plasterboard wall. A convenient place is beside the service door and out of reach of children.

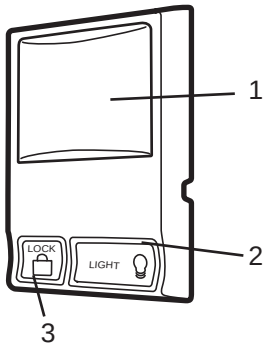
Run the bell wire up the wall and across the ceiling and connect to the garage door opener quick connect terminals which are located behind the light lens of the opener. Connect the bell wire to the terminals as follows: white/red to red (1) and white to white (2).Use a screwdriver or pen to press open the spring terminals, then insert the cable into the terminal.

Locate door control where the garage door is visible, away from door and door hardware and out of the reach of children. Mount at least 1.5 m (5 feet) above the floor.

Serious personal injury from a moving garage door may result from misuse of opener. Do not allow children to operate the door control or remote control transmitter.

Permanently fasten the caution label to the wall near the door control as a reminder of safe operating procedures.

Operation of the door control using the multi-function door control



Press the push bar (1) to open or close the door. Press again to stop the door.

Light feature

Press the light button (2) to turn the opener light on or off, (it will not control the opener light when the door is in motion). If you turn it on and then activate the opener, the light will remain on for 2-1/2 minutes. Press again to turn it off sooner.

Lock feature

Designed to prevent operation of the door from hand-held remote controls. However, the door will open and close from the door control, the outside keyswitch and the keyless entry accessories.

To activate, press and hold the lock button (3) for 2 seconds. The push bar light will flash as long as the lock feature is on.

To turn off, press and hold the lock button again for 2 seconds. The push bar light will stop flashing. The lock feature will also turn off whenever the “LEARN” button on the opener panel is activated.

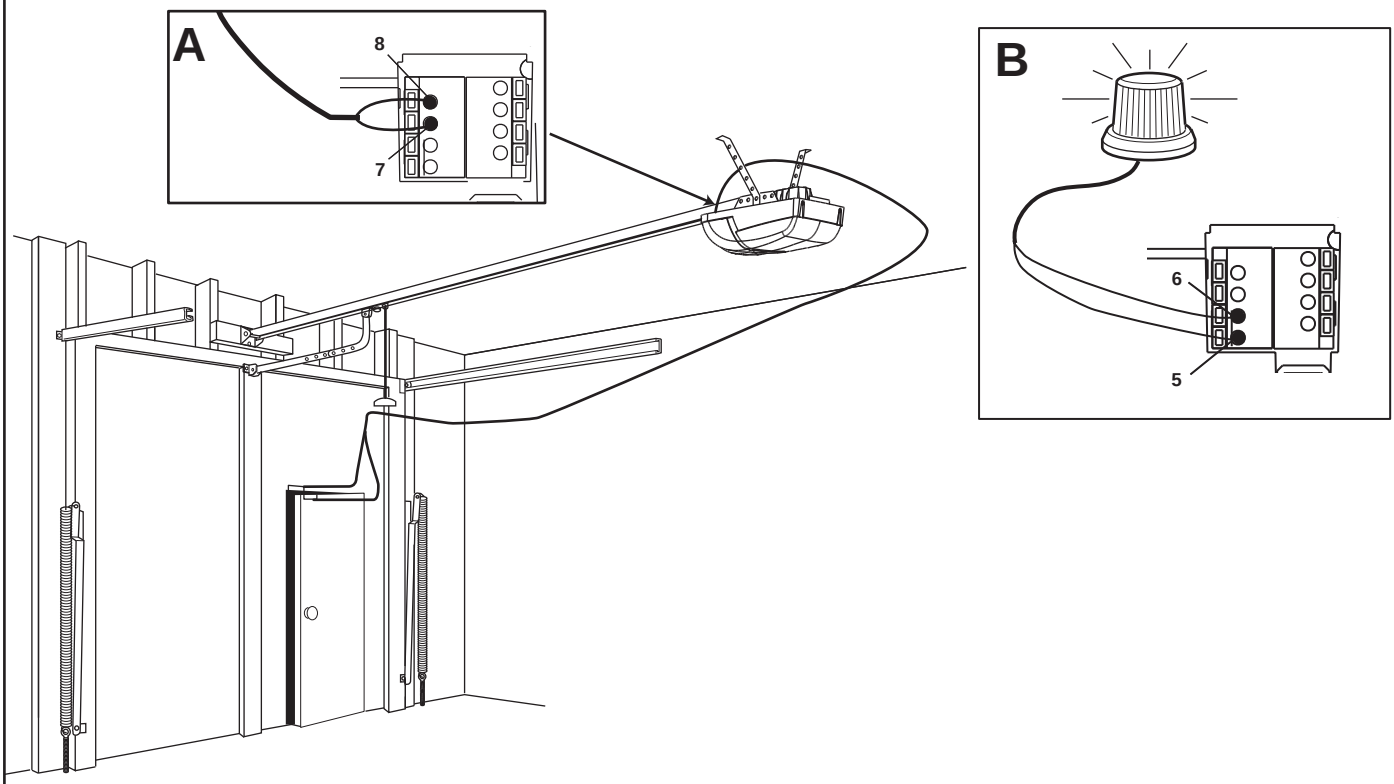
28 *SPECIAL FEATURES*

A. Door within a door connection

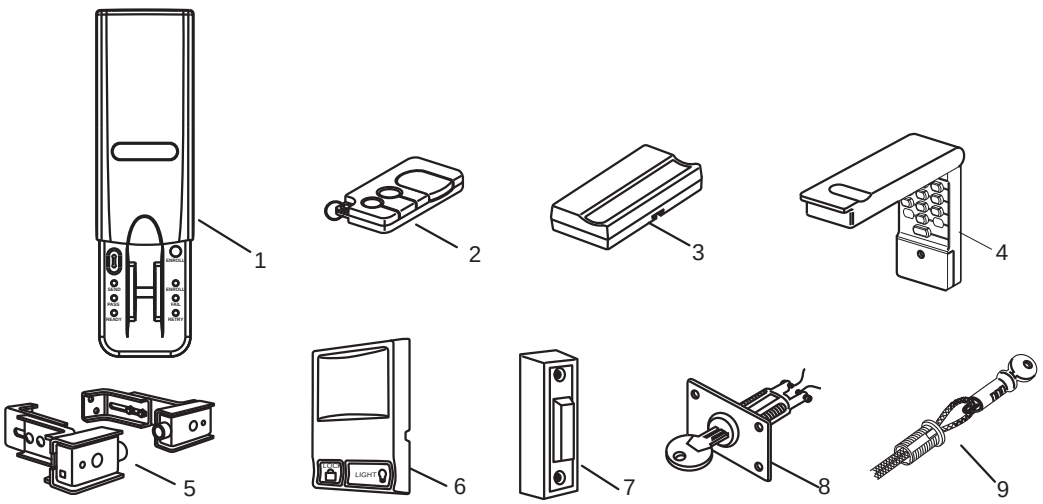
Open light lens. Locate auxiliary quick connect terminals (remove factory installed link). Insert bell wire into quick connect terminals 8 and 7.

B. Flashing light connection

The flashing light can be installed anywhere. Connect light leads to quick connect terminals 6 and 5. Terminal 5 is ground.

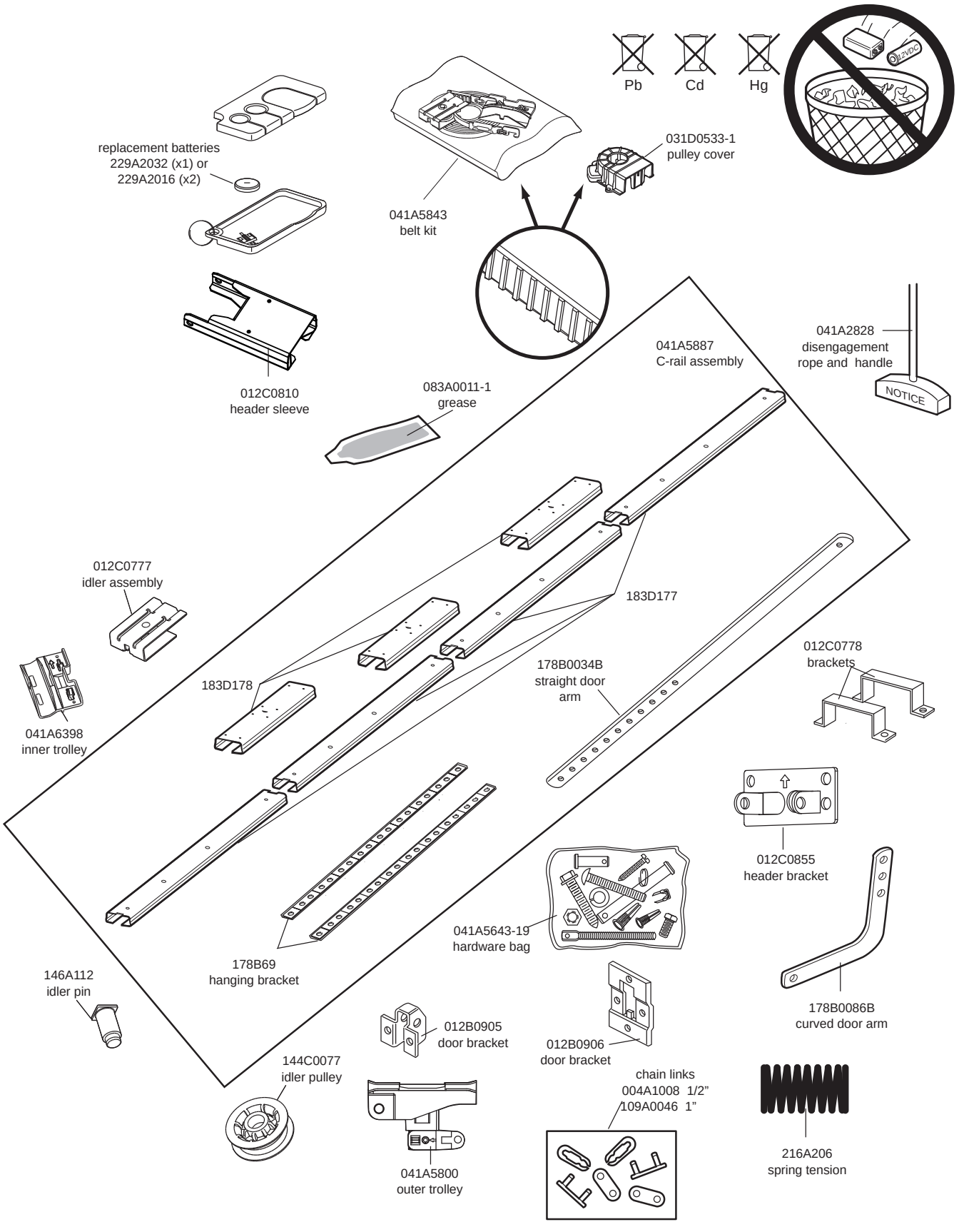


29 *ACCESSORIES*

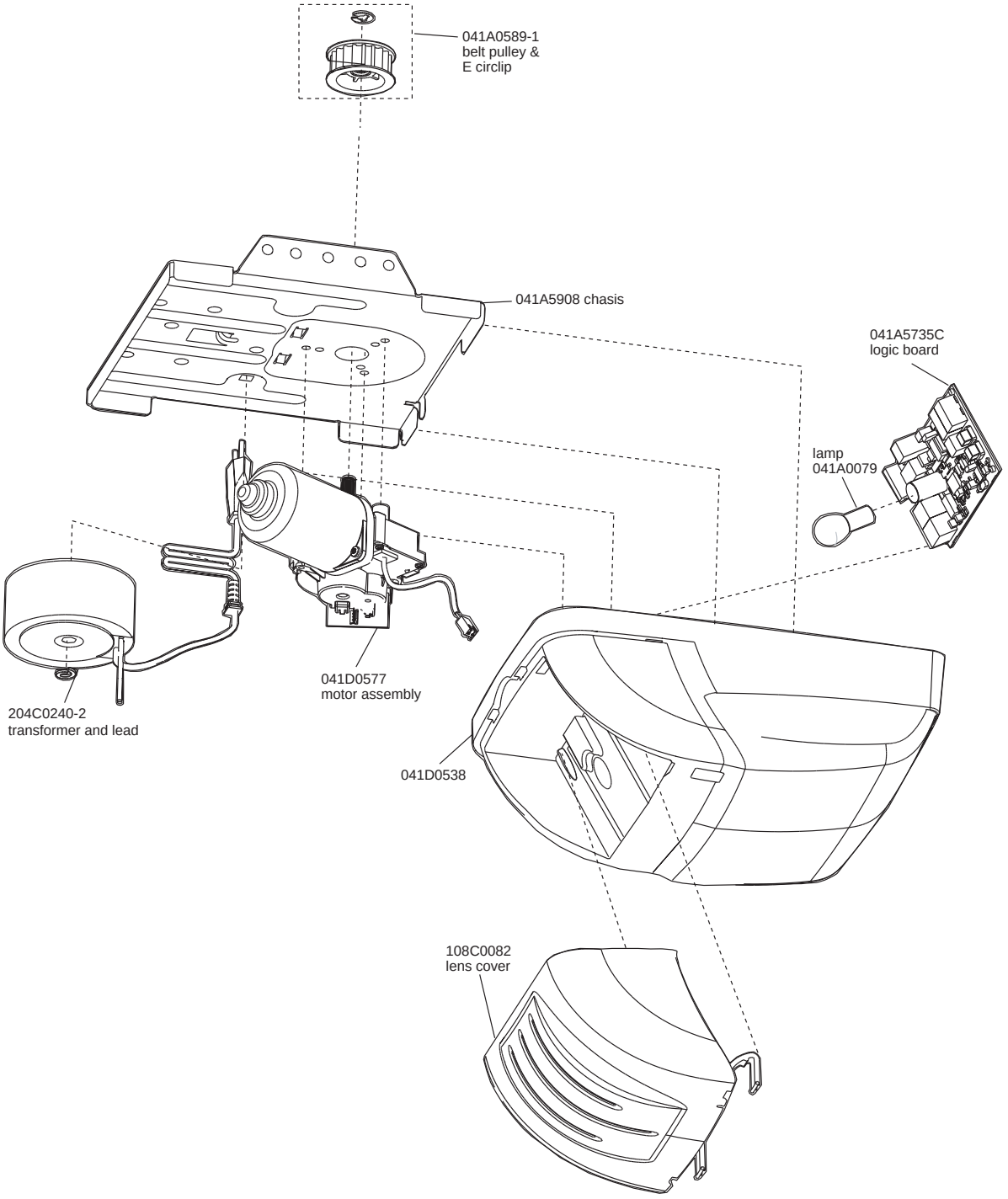


1. Model C379 Fingerprint keyless entrypad
2. Model 84335AML 3 channel mini remote control
3. Model 84330AML 1 channel remote control
4. Model 8747AML keyless entry system
5. Model 770AML or C77 The Protector System™
6. Model 845AML Multi-function control panel
7. Model 75AML Illuminated button
8. Model 760AML Outdoor keyswitch
9. Model 1702AML or CM1702 Outside quick release

30 *REPLACEMENT PARTS*



31 *REPLACEMENT PARTS*



If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid hazard.

TROUBLE SHOOTING

1. Opener doesn't operate from either door control or remote:

- Does the opener have electric power? Plug lamp into outlet. If it doesn't light, check the fuse box or the circuit breaker. (Some outlets are controlled by a wall switch.)
- Have you disengaged all door locks? Review installation instruction warnings on page 1.
- Is there a build-up of ice or snow under door? The door may be frozen to ground. Remove any obstruction.
- The garage door spring may be broken. Have it replaced.

2. Opener operates from remote but not from door control:

- Is door control button lit? If not, remove the bell wire from the opener terminals. Short the red and white terminals by touching both terminals at the same time with a piece of wire. If the opener runs, check for a faulty wire connection at the door control, a short under the staples, or a broken wire.
- Are wiring connections correct? Review section 27.

3. Door operates from door control but not from remote:

- Replace battery if necessary.
- If you have two or more remotes and only one operates, review wireless programming, keyless device programming sections 25 and 26.
- Is the door control button flashing? The opener is in lock mode. If you have a multi-function door control, push and hold the lock button for 2 seconds. The door control button will stop flashing.

4. Remote has short range:

- Is battery installed? Check or change battery.
- Change the location of the remote control in the car.
- A metal garage door, foil-backed insulation or metal siding will reduce the transmission range.

5. Door reverses for no apparent reason and opener light doesn't flash:

- Is something obstructing the door? Pull manual release handle. Operate door manually. If it is unbalanced or binding, call for professional garage door service.
- Clear any ice or snow from garage floor area where garage door closes.
- Repeat setting limits and force, see adjustment sections 21 and 22.

Repeat safety reverse test after adjustment is complete.

6. Door reverses for no apparent reason and opener light flashes for 5 seconds after reversing:

- Check the Protector System™ (if you have installed this accessory). If the light is flashing, correct alignment.

7. The garage door opens and closes by itself:

- Make sure remote push button is not stuck "on".

8. Door stops but doesn't close completely:

- Repeat setting the limits, see adjustment section 21.
- Repeat safety reverse test after any adjustment of door arm length, close force or down limit.

9. Door opens but won't close:

- Check the Protector System™ (if you have installed this accessory). If the light is flashing, correct alignment.
- If opener light does not flash and it is a new installation, repeat setting the limit and force sections 21 and 22.
- Repeat the safety reverse test after the adjustment is complete.

10. Opener light does not turn on:

- Replace light bulb (24V/21W maximum).

11. Opener strains:

- Door may be unbalanced or springs are broken. Close door and use manual release rope and handle to disconnect trolley. Open and close door manually. A properly balanced door will stay in any point of travel while being supported entirely by its springs. If it does not, call for professional garage door service to correct the problem.

12. Opener motor hums briefly, then won't work:

- Garage door springs are broken. SEE ABOVE.
- If problem occurs on first operation of opener, door is locked. Disable door lock.
- Repeat safety reverse test after adjustment is complete.

13. Opener won't activate due to power failure:

- Pull manual release rope and handle down and back to disconnect trolley. Door can be opened and closed manually. When the power is restored, pull the manual release handle straight down. The next time the opener is activated, the trolley will reconnect.
- The outside quick release accessory (if fitted) disconnects the trolley from outside the garage in case of power failure.

14. Setting the limits manually:

1. Press and hold the black button until the yellow indicator light starts flashing slowly then release.
2. Push and hold the black button until the door reaches the desired UP (open) position. Adjust the position of the door by using the black and orange buttons. Black moves the door UP (open) and orange moves the door DOWN (close).

   Check to be sure the door opens high enough for your vehicle.
3. Push the remote control or door control. This sets the UP (open) limit and begins closing the door. **Immediately press either the orange or the black button.** The door will stop.

   Adjust the desired DOWN (closed) limit by using the orange (DOWN) and black (UP) buttons. Check to be sure the door is fully closed without applying excessive pressure on the rail (rail should not bow upwards and the belt should not sag or droop below the rail). Push the remote control or door control. This sets the DOWN (close) limit and begins opening the door.

NOTE: If neither the BLACK or the ORANGE button is pressed, the door will reverse off the floor and the DOWN travel limit will be set automatically.

4. Open and close the door with the remote control or door control 2 or 3 times.

- If the door does not stop in the desired UP (open) position or reverses before the door stops at the DOWN (close) position, repeat *setting the limits manually* one more time.
- If the door stops in both the desired UP (open) and DOWN (close) positions, proceed to *test the safety reversal system.*

OPERATION OF YOUR OPENER

Your opener can be activated by any of the following devices:

- **The backlit door control button (if installed).** Hold the button down until door starts to move.
- **The outside keyswitch or keyless entry system** (if you have installed either of these accessories).
- **The remote control transmitter.** Hold the push button down until the door starts to move.

Opening the door manually:

Door should be fully closed if possible. Weak or broken springs could allow an open door to fall rapidly. Property damage or serious personal injury could result.

The door can be opened manually by pulling the release handle down. To reconnect the door, pull the release handle down and toward the opener.

Do not use the manual release handle to pull the door open or closed.

When the opener is activated by remote control or backlit door control button:

1. If open, the door will close. If closed, the door will open.
2. If closing, the door will stop.
3. If opening, the door will stop (allowing space for entry and exit of pets and for fresh air).
4. If the door has been stopped in a partially open or closed position, it will reverse direction.
5. If an obstruction is encountered while closing, the door will reverse.
6. If an obstruction is encountered while opening, the door will reverse, then stop.
7. The optional Protector System™ uses an invisible beam which, when broken by an obstruction, causes a closing door to open and prevents an open door from closing. It is STRONGLY RECOMMENDED for homeowners with young children.

Allow a 15 minute cooling period after 5 continuous operations of the opener.

The opener light will turn on:

1. when opener is initially plugged in;
2. when the power is briefly interrupted;
3. when the opener is activated.

The light turns off automatically after 2-1/2 minutes. Bulb size is 24V/21W maximum.

MAINTENANCE OF YOUR OPENER

Once a Year:

- Apply grease to rail and trolley
- Oil door rollers, bearings and hinges
- **DO NOT** lubricate the opener itself
- **DO NOT APPLY** grease to the door tracks

CARE OF YOUR OPENER

When properly installed, your opener will operate with minimal maintenance. The opener does not require additional lubrication.

Limit and force settings: These settings must be checked and properly set when opener is installed. Weather conditions may cause some minor changes in the door operation, requiring some re-adjustments, particularly during the first year of operation.

Refer to *setting the limits and force* on page 9. Follow the instructions carefully and **repeat the safety reverse test after any adjustment.**

Remote control: The remote control may be secured to a car sun visor with the clip provided. Additional remotes can be purchased at any time for use in all vehicles using garage. Refer to accessories. Any new remotes must be programmed into the opener.

Remote control battery: If transmission range decreases, replace battery.

To change battery: To replace batteries, use the visor clip or screwdriver blade to pry open the case. Insert batteries *positive side up*. To replace cover, snap shut along both sides. Do not dispose of the old battery with household waste. Take batteries to a proper disposal centre.

SPECIFICATIONS

Input Voltage	230-240 VAC, 50Hz
Max. Pull Force	600N
Power	115W
Standby Power	5.5W
Normal Torque	7Nm
Motor	
Type	DC gearmotor permanent lubrication
Drive Mechanism	
Drive	Belt with two-piece trolley on steel rail
Length of Travel	Adjustable to 2.3m
Travel Rate	127-178mm per second
Lamp	On when door starts, off 2-1/2 minutes after stop
Door Linkage	Adjustable door arm. Pull cord trolley release
Safety	
Personal	Push button and automatic stop in **down** direction. Push button and automatic stop in **up** direction
Electronic	Automatic force adjustment
Electrical	Transformer overload protector and low voltage push button wiring
Limit Device	Optical RPM/Passpoint detector
Limit Adjustment	Electronic, semi and fully automatic
Start Circuit	Low voltage push button circuit
Dimensions	
Length (Overall)	3.2m
Headroom Required	30mm
Hanging Weight	16kg
Receiver	
Memory Registers	12
Operating Frequency	433.92MHz

SPECIAL NOTE: Chamberlain strongly recommends that the Protector System™ be installed on all garage door openers.

CHAMBERLAIN LIMITED WARRANTY
Chamberlain ML750
Sectional Garage Door Opener

Chamberlain Australia Pty Limited / Chamberlain New Zealand Limited (Chamberlain), the manufacturer of Chamberlain® automatic garage door openers is committed to manufacturing and supplying high quality goods. As part of this commitment, we seek to provide reliable service and support for our goods and are pleased to provide you, the original purchaser, with this Chamberlain Limited Warranty.

We also provide the following statement as required by the Australian Consumer Law: In Australia, in addition to your rights under this Chamberlain Limited Warranty, our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Chamberlain's warranty
Chamberlain warrants to the original purchaser of the:
Chamberlain® ML750 Sectional Door Opener (Unit) that it is free from defects in materials and workmanship for a period of 24 months or 7,500 cycles whichever comes first, from the date of purchase when installed in a residential premise with a residential specified garage door that is designed for the sole purpose of domestic domicile.

A maximum of 10 cycles (opening & closing of the garage door) is determined to be at the maximum end of residential use on a daily basis. Remote controlled transmitters and accessories included with these units have a 12 month warranty from date of installation. These transmitters and accessories are not covered for damage caused by neglect. Batteries and globes are not covered under this warranty period.

It is also a condition of this warranty that the garage door is operable by hand and opens and closes with no more than a maximum of 20kgs of lifting weight. Chamberlain recommends that the garage door is serviced by a garage door technician every 12 months. This garage door service fee will be at the consumer's expense.

NB: The Australian Garage Door Association directs attention to consumers to maintain your garage door in good running order it is important your door is serviced by a professional garage door technician every 12 months or earlier as conditions may require.

During the applicable Chamberlain Limited Warranty period, if you are concerned that the Unit may be defective,

- remove and return the unit, freight paid to our service centre, address below or call our Customer Service Centre on the toll free number below and a Chamberlain technician will diagnose the problem and advise on the next action steps to take. Once the problem has been diagnosed subject to your rights under the Australian Consumer Law with respect to major failures, Chamberlain or its Dealer will provide you with:
  repairs to the opener, Chamberlain will furnish replacement parts free of charge if non electrical or through the Professional Dealer if deemed to be of a technical nature. A service fee for on- site service may apply if the fault is not covered under this warranty policy.

or

- a replacement unit.

Repairs and replacement parts provided under this Chamberlain Limited Warranty is provided free of charge and is warranted for the remaining portion of the original warranty period.
This Chamberlain Limited Warranty provides benefits which are in addition to your other rights and remedies as a consumer.

Exclusions
If our service centre determines that a warranty claim has been made in respect of a failure or defect arising under or out of any exclusion detailed below such that the claim is not covered under this Chamberlain Limited Warranty, we may, subject to your other rights and remedies as a consumer, charge you a fee to repair, replace and/or return the Unit to you.

Exclusions
This Chamberlain Limited Warranty does not cover any failure of, or defect in, the Unit due to:

1 non-compliance with the instructions regarding installation, operation, maintenance and testing of the Unit or of any product with which the Unit is used;
2 any attempt by a person other than a Professional Garage Door Dealer to repair or dismantle the Unit ;
3 tampering, neglect, abuse, wear and tear, accident, electrical storm, excessive use or conditions other than normal domestic use;
4 problems with, or relating to, the garage door or garage door hardware, including but not limited to the door springs, door rollers, door alignment or hinges; or
5 problems caused by electrical faults or replacement of batteries or light bulbs.
6 water or moisture ingress that causes corrosion or electrical malfunction.
7 corrosion caused by sea air if located near a waterway, beach etc.
8 fitment to a commercial door or in a commercial operating application.

NB: A General Purpose Outlet (GPO) ie: power point must be supplied by the consumer as this electrical fitting does not form a part of the unit (opener).
If this Chamberlain Limited Warranty does not apply, you may have rights available to you under the Australian Consumer Law.

Accessories Warranty:
Accessories supplied with the unit are warranted for 12 months from the date of installation.
Liability – Australia only
Except as set out in the Australian Consumer Law (being Schedule 2 of the Competition and Consumer Act 2010) (as amended, consolidated or replaced):

1 all other guarantees, warranties and representations in relation to the Unit or its supply are excluded to the extent that Chamberlain can lawfully exclude them; and
2 under no circumstances will Chamberlain be liable for consequential, incidental or special damages arising in connection with the use, or inability to use, the Unit, other than those which were reasonably foreseeable as liable to result from the failure.

Liability – New Zealand only
Except as set out in the Fair Trading Act 1986 and the Consumer Guarantees Act 1993 (as amended, consolidated or replaced):

1 all other guarantees, warranties and representations in relation to the Unit or its supply are excluded to the extent that Chamberlain can lawfully exclude them; and
2 under no circumstances will Chamberlain be liable for consequential, incidental or special damages arising in connection with the use, or inability to use, the Unit, other than those which were reasonably foreseeable as liable to result from the failure.

Note: We request that you retain your sales docket or invoice as proof-of-purchase and attach it to this manual to enable you to establish the date of purchase in the unlikely event of a warranty service being required. Chamberlain reserves the right to change the design and specifications of the Unit without prior notification. Some features or accessories of the Unit may not be available in certain markets or areas. Please check with your distributor.

Chamberlain service centre contact details

Australia
Phone toll free 1800 638 234
Fax toll free 1800 888 121
75 Epping Road, North Ryde NSW
New Zealand
Auckland phone 09 477 2823
Phone toll free 0800 653 667
Fax toll free 0800 653 663
Email: customerservice@chamberlainanz.com
Website: www.chamberlainanz.com

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